SPEC BOOK
GTEK
ECLIPSE
GAME ON.
GTEK

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ECLIPSE
GTEK
GTEK

GTEK GAME ON!

For years the Etek has been the go-to marker for those looking for the ultimate in performance, value and rugged reliability in the mid-range market place. Its stacked-tube poppet valve construction has proven time and again to be the benchmark by which others in this area are judged.

However, at Planet Eclipse we appreciate that not everyone likes the feel or the external moving components of a stacked-tube poppet valve marker. Some players have a clear preference for the simple lines and enclosed bolt system of the single-tube, spool valve platform.

It is for these players that the all new Eclipse Gtek was created. A mid-range Eclipse marker with all the value, reliability and efficiency of the Etek line but with the smooth shooting and quiet sound signature that you've come to expect from a modern single-tube spool valve marker.

Pull up on the quick release back cap and within its compact, lightweight and low-profile body the Gtek's all-new and completely unique Gamma Core drivetrain can be found. This new system has been designed and developed to pull off the perfect trifecta of supreme all-weather reliability with optimal shooting enjoyment and exceptional efficiency.

Reliability and testing

The Gtek has been subjected to and passed the most extreme environmental testing we have ever devised for a new marker. Repeatedly stored at temperatures as low as -20F for days at a time the marker still fires full velocity on the first time of asking, with zero FSDO (first shot drop-off). Cycled for hours at a time at below freezing without stopping to be lubricated, then heated to 100F and cycled for tens of thousands of shots more the Gamma Core is the most robust drivetrain we have ever devised. And it's not like our other markers aren't amongst some of the most durable out there. But the Gtek takes it to a new level.

Efficiency

The Gamma Core utilizes lessons learned with the IVCore in the Geo line when it comes to making the most of the air used to fire a paintball. Although the operation method of the Gtek is nothing like a Geo it still utilizes the Breech Sensing technology of the IVCore to seal off the firing chamber mid-shot. This means that no tail end air is lost and wasted down the barrel. The Gamma Core traps over 30psi in the firing chamber after every shot. That's 30psi saved per shot over a normal spool valve system.

The Gamma Core also utilizes a unique system where the spool and bolt are completely decoupled from each other and where the air that is used to drive the bolt forward is also released down the barrel and not vented into the atmosphere and wasted like in most other systems. This further improves the efficiency of the system as the only air wasted is that which is used to drive the relatively small spool.

Feel, sound and paint handling

The starting point for understanding the Gtek's unique feel and shot signature is the low operating pressure of its Gamma Core drivetrain at only 135psi. It's one of the primary reasons that the marker feels so smooth and has such a quiet sound signature.

Then there is the three-stage bolt acceleration. Each stage tuned to give the perfect balance of exceptional paint handling, efficiency, feel and reliability.

The acceleration profile of the Gtek bolt is very accurately controlled. The initial push-off phase is tuned to give exceptional paint handling ability by very gently picking up the ball to get it moving in the direction of the breech. It maintains this controlled phase as the bolt passes the second ball in the stack to help eliminate clipping that ball. At this point the bolt hits the second phase where the acceleration profile is ramped up in order to give good valve resolution to help efficiency, create a low sound signature and to help maintain high rates of fire. The final stage is as the bolt seals in the breech and the main valve opens to release air behind the ball. This ensures the valve opens cleanly for maximum flow and again, efficiency.

Of course the rest of the Gtek is just as impressive as the new Gamma Core.

The same rugged glass reinforced composites that have been used on the Etek for many years can be found on the Gtek. Gripframe, breech sensor covers, feedtube and OOPS knob are manufactured from this incredibly durable and resilient material. All other components are the same 6061-T6 aluminium that you will find on all other Eclipse markers.

The frame is wrapped in dual-density rubber grips and protect the same circuit board as the Etek5 and like its sibling, the Gtek can be quickly and easily upgraded to full OLED capability without the need to replace the circuit board. Just plug and play.

ALONGSIDE THE ETEK, THE GTEK COMPLETES OUR INCREDIBLE MID-RANGE MARKER OFFERING

The SL4 regulator at the front is the same regulator that you'll find on the Geo3.5 and LV1.1 Pro. Again, a proven regulator design that has been optimised to work with everything from SLP to HP output tanks with zero effect on performance. It's wrapped in a super-comfy dual-density unibody foregrip sleeve which is perfectly spaced from the frame to give an incredibly stable shooting platform.

And of course there is a new Gtek Shaft4/5 compatible 14.5" barrel tip with extra porting for a reduced sound signature and improved consistency and efficiency. And all packaged in the customary Eclipse zippered hard tin with spares bundle, tool kit, grease, barrel sock and instruction manual.

Designed to strike the perfect balance of on-field performance, comfort, reliability and outstanding value, the Gtek is the marker some people have been waiting a very long time for. And now it's here.

The Eclipse Gtek.

Game on!

GTEK

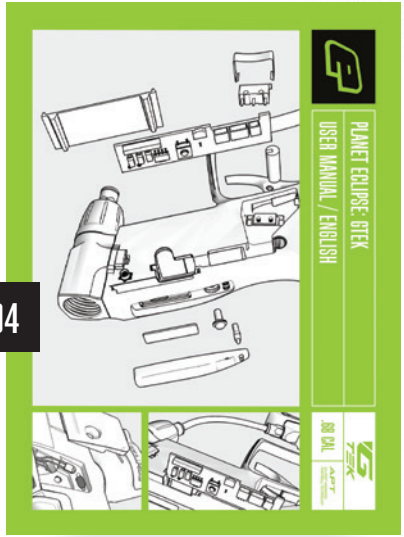
IN THE BOX

Alongside your Eclipse Paintball Marker you will also receive:

01. EVA LINED TOUGH TRANSPORT CASE
02. ECLIPSE LUBRICANT
03. ECLIPSE TOOL KIT
04. USER MANUAL
05. 2-PIECE BARREL KIT
06. COMPREHENSIVE SPARES KIT*
07. ECLIPSE BARREL SAFETY BAG

02

03



04

05

06

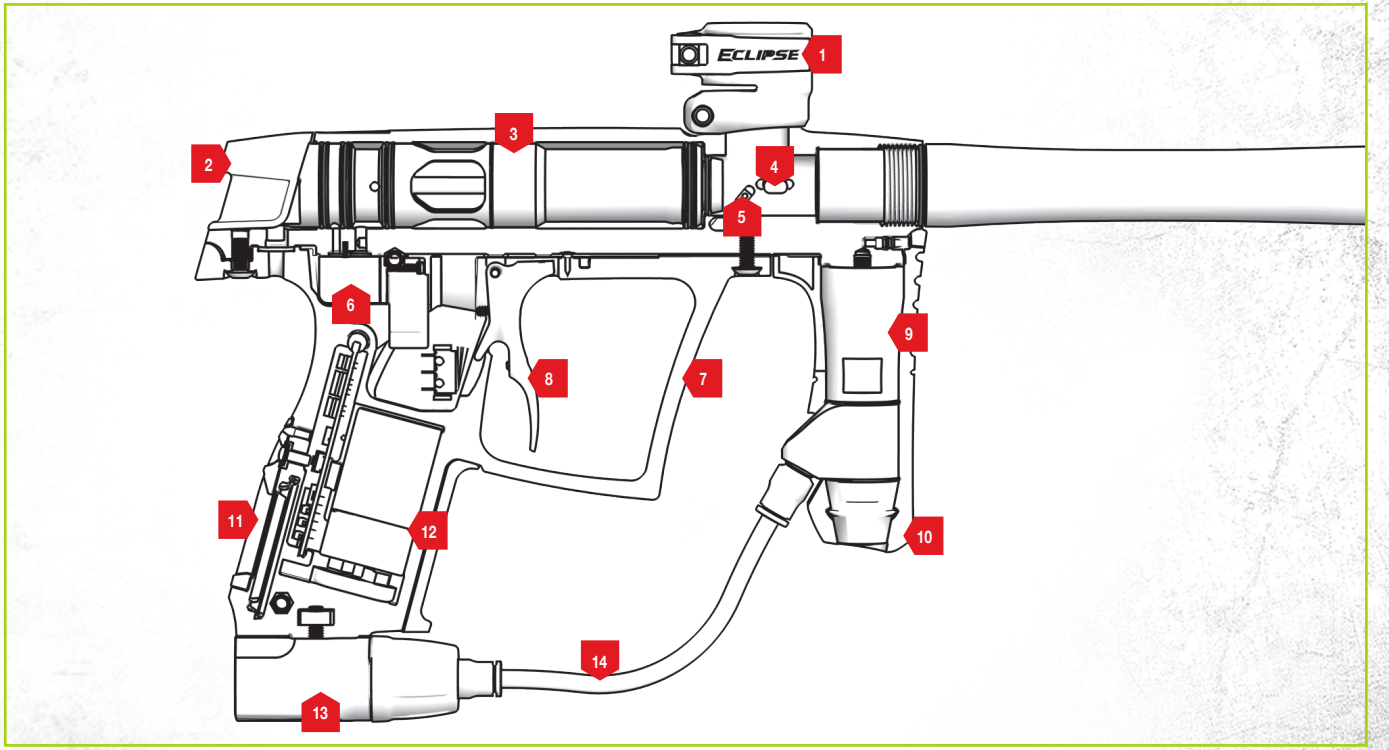
07

* Actual contents may vary

INSIDE THE GTEK

1. DEFTEK clamping feed tube assembly
2. Quick-release bolt removal
3. Gamma Core bolt assembly
4. Rubber fingered detents
5. Breech sensor (BS) unit
6. Bespoke solenoid assembly
7. GRN composite frame assembly
8. Trigger assembly
9. SL4 inline regulator assembly
10. Dual density unibody foregrip
11. Navigation console (upgradeable to OLED)
12. 9V battery power source
13. OOPS assembly
14. Macroline hose

GTEK CROSS SECTION



GTEK SPECS

DIMENSIONS	
WEIGHT	931g / 2.05lb
LENGTH / HEIGHT / WIDTH	551.6mm / 206.3mm / 34.8mm
ELECTRONICS	
USER INTERFACE	Single push button and trigger
DISPLAY	LED or optional 32x128 graphical OLED
SOLENOID VOLTAGE	5V
PROCESSOR (VOLTAGE)	PIC16F1829 XLP (Extreme Low Power) microcontroller
POWER SUPPLY	1 x 9V Alkaline battery (IEC 6LR61 / ANSI 1604A)
E-PORTAL	Not compatible
HARDWARE	
ASA MOUNT	Bolted to frame
TRIGGER METHOD	Micro-switch
TRIGGER MECHANISM	Leaf spring return
BARREL	2-piece micro-honed Shaft 4/5 compatible (14.5” length) **
FEED TUBE	Lever operated clamping feed
MATERIALS	6061-T6 aluminium GRN composite
PNEUMATICS	
OPERATING PRINCIPLE	Spool valve
SOLENOID TYPE	Bespoke in-house engineered solenoid assembly
DRIVE MECHANISM	Gamma Core
BOLT MECHANISM	Spool Cure ST1 bolt
ERGONOMICS	
GRIP TYPE	Countoured dual density grip
GRIP PITCH	147mm / 5.787”
FIRMWARE	
FIRING MODES	Semi & Ramping (capped / uncapped)
DEBOUNCE MODES	10 debounce modes

SUPPORT

As an Eclipse customer you will have access to our worldwide technical support network that will help you with any technical problems from localised service centres to on-site tech support.

QUALITY

All Eclipse products undergo meticulous checks by experienced specialists who care about the product that arrives at your door. Stringent quality control and the use of precision materials equals a quality product.

WARRANTY

Our exceptional 12 month* manufacturers warranty backed by our online warranty system offers peace of mind and ensures your claim will be repaired or replaced in a snap!

STANDARD

Your Eclipse marker is awesome and requires no after market parts, however for genuine Eclipse accessories that compliment your playing preference or individual style consult your local Eclipse Dealer for upgrade options.

* Conditions apply, see online policies for full details at planeteclipse.com

**Bore size may vary

DATASHEET

	GEO CS1	GEO 3.5
WEIGHT	987.6g / 2.17lb	918g / 2.02lb
LENGTH / HEIGHT / WIDTH	552.1mm / 200.4mm / 36.8mm	540mm / 202mm / 31mm
USER INTERFACE	Graphic LCD and 3 push buttons	Graphic LCD and 3 push buttons
SOLENOID	Bespoke in-house engineered solenoid assembly	Custom MAC direct acting solenoid valve
MICROPROCESSOR	16bit 16 MIPS	16bit 16 MIPS
POWER SUPPLY	2 x AA 1.5V (LR6)	1 x 9V Alkaline battery (IEC 6LR61 / ANSI 1604A)
E-PORTAL	Compatible (E-Portal3 available for download at planeteclipse.com)	Compatible with E-Portal 2
ASA	AT2 POPS	AT POPS
TRIGGER DETECTION	Micro-switch and break beam opto-switch	Micro-switch and break beam opto-switch
TRIGGER RETURN	Leaf spring and magnetic return	Leaf spring and magnetic return
BARREL	2-piece micro-honed Shaft 5 with Shaft Pro tip (14.5” length) Bore size may vary	2-piece micro-honed Shaft 4 (total length14.5”) Bore size may vary
FEED TUBE	Lever operated clamping feed with sprocket thumb wheel	Lever operated clamping feed with sprocket thumb wheel
MATERIALS	6082-T6 aluminium, 6061-T6 aluminium, GRN composite	6082-T6 aluminium, 6061-T6 aluminium
OPERATING PRINCIPLE	Spool valve	Spool valve
DRIVE MECHANISM	CS1 IVCore with quick-release back cap	IVCore with quick-release back cap
BOLT MECHANISM	Spool Cure ST1 and ST2 bolts	Spool Cure ST1 and ST2 bolts
SFR’S (Solenoid Flow Restrictor)	Yes	Yes

EGO LV1.1	ETEK5	GTEK	ETHA
979g / 2.15lb	1000g / 2.2lb	931g / 2.05lb	930g / 2.05lb
555mm / 210mm / 27mm	552mm / 215mm / 31mm	551.6mm / 206.3mm / 34.8mm	539mm / 212mm / 33.5mm
Graphic LCD and 3 push buttons	LED or optional 32x128 graphical OLED and 1 push button	LED or optional 32x128 graphical OLED and 1 push button	3 LEDs and 1 push button
Custom MAC direct acting solenoid valve	SMC with custom direct mount manifold	Bespoke in-house engineered solenoid assembly	High pressure solenoid valve
16bit 16 MIPS	PIC16F1829 XLP (Extreme Low Power) microcontroller	PIC16F1829 XLP (Extreme Low Power) microcontroller	8bit PIC16
1 x 9V Alkaline battery (IEC 6LR61 / ANSI 1604A)	1 x 9V Alkaline battery (IEC 6LR61 / ANSI 1604A)	1 x 9V Alkaline battery (IEC 6LR61 / ANSI 1604A)	1 x 9V Alkaline battery (IEC 6LR61 / ANSI 1604A)
Compatible with E-Portal 2	Not compatible	Not compatible	Not compatible
AT POPS	Inline OOPS	Inline OOPS	Inline OOPS
Micro-switch and break beam opto-switch	Micro-switch only	Micro-switch only	Micro-switch only
Leaf spring and magnetic return	Magnet	Leaf spring return	Leaf spring
2-piece micro-honed Shaft 4 with Shaft Pro tip (14.5” length) Bore size may vary	2-Piece micro honed ETEK5 14.5” length (Shaft4 compatible) Bore size may vary	2-Piece micro honed GTEK 14.5” length (Shaft4/5 compatible) Bore size may vary	2-Piece micro honed ETEK5 14.5” length (Shaft4 compatible) Bore size may vary
Lever operated clamping feed with sprocket thumb wheel	Lever operated clamping feed	Lever operated clamping feed	Lever operated clamping feed
6082-T6 aluminium, 6061-T6 aluminium	6061-T6 Aluminium, GRN composite	6061-T6 Aluminium, GRN composite	6061-T6 Aluminium, GRN composite
Poppet Valve with Lever Mechanism	Poppet Valve	Spool Valve	In-line blow forward bolt
Zick3 rammer system	Zick3 rammer system	Gamma Core	Dual force pull poppet
Cure 5 bolt	Cure 5 bolt	Spol ST1 bolt	Rubber-tipped CS bolt
Yes	No	No	No

ECLIPSE DEALER INFO

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